PRODUCT AFFECTED OR-8	DRAWINGS AFFECTED SCHEPATIC 1679 A SMEET 2
DESCRIPTION OF CHANGE	
OLD:	l NEW:
VOLP (65) AST VOLPOT	VOLOGS CG .022 of VOLPOT
-	¥252 <u>=</u>
	ADD . 022MF CAPACITOR IN PARALLEL WITH N89.

REASON FOR CHANGE

RETROFIT IF NEEDED IN FIELD

TO ELIMINATE NOISE WHEN CONTROLING THE VOLUMES WITH MY EXTENNAL LOW IMPEDANCE VOLTAGE SOURCE.

(FOR EXAMPLE, A CV OUTPUT OF THE DSX PLUGGED INTO THE VOLUME FOOT PEDAL INPUT)

EFFECTIVITY	MKTITEN DI	SAI
FUTURE PRODUCTION ONLY	MICHEL	12/9/8
RETROFIT UNITS IN PRODUCTION AND INVENTORY		
RETROFIT UNITS IN FIELD	APPROVED BY	DAT
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	/	

12/9/82

ODUCT AFFECTED

DRAWINGS AFFECTED

OB-8

1682 SHEET ROF3

SCRIPTION OF CHANGE

OF DIOI + RIOI ON diawing REVERSE POSITION " D201 + R201 D30/ + R301 0401 4 R401

C32 connected to pin 5 of U35 should by C34 C23 connected to pins of U21 should be C3

ADD R32 to 100k 1% commected to Dinz of UZZ ADD R33 to 4.87K 1% converted to pinzapinl of U33 CHANGE 233 (5605) to R35 sheet 10f3 ADD 236 to 42K connected to pin 4 of UDG. CHANGE DIN 4 (output routsol) UB to pin 1

ASON FOR CHANGE

To match schematic to board layout.

FECTIVITY TFUTURE PRODUCTION ONLY RETROFIT UNITS IN PRODUCTION AND INVENTORY RETROFIT UNITS IN FIELD DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED

7dec82

APPROVED BY

WRITTEN BY

90 12-7-82

DATE

DATE

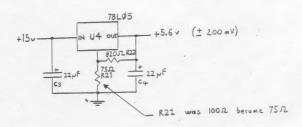
DRAWINGS AFFECTED

08-8

OB-8 POT. Board 182 1681 A

ESCRIPTION OF CHANGE

Reduce output of 5.6 v Supply.



EASON FOR CHANGE

FEECTIVITY

Increase the active range of the Front panel pots

FUTURE PRODUCTION ONLY	PETER MI	URSON 12/10,
RETROFIT UNITS IN PRODUCTION AND INVENTORY		
RETROFIT UNITS IN FIELD	APPROVED BY	DAT
DRAWING CORRECTION ONLY: HARDWARE NOT AFFECTED		

200 12/10/82

WRITTEN BY

DATE

ECO NO.

RODUCT AFFECTED DRAWINGS AFFECTED

OB-8 VOICE BOARD 1682 A

ESCRIPTION OF CHANGE and the 3310 in conjonction The 3360 VCA is by passed ith the software modulates the amplitude of the envelope. A software vision A-4 or posterior must instaled. be UNUSED .31 , at the ouput of U27 is short circuited & R3d is removed (see sheet 2) WEFM -022,0026 UKII FOOK TX 62 Dx 02 AX20 TAGL BEFORE AFTER

REASON FOR CHANGE

OB-8

Improve temperature stability and tracking of VCO2 filter env. modulation

EFFECTIVITY	WRITTEN BY	DATE
FUTURE PRODUCTION ONLY	WIGHT PAINS	/ /
RETROFIT UNITS IN PRODUCTION AND INVENTORY	MICHEL DOIDIC	12/12/8
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED		
	250	12/12/02

* REVISED 1-5-83 4-

OBERHEIM ELECTRONICS, INC. ENGINEERING CHANGE ORDER

ECO NO. 406

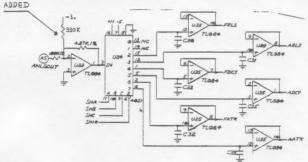
DATE

DATE

RODUCT AFFECTED DRAWINGS AFFECTED OB-8 VOICE BOARD 1682 A 08-8

ESCRIPTION OF CHANGE

Add a resitor between -50 and pin 2 of U33 (upper & Lower voke) A software revision A-4 or posterior must be installed and the offset calibration of the service center test must be performed.



EASON FOR CHANGE

The affect calibration routine of the service center test can correct the TLØ24 For positive or negative offset.

PPECITALIA	WRITTEN BY	DATE
FUTURE PRODUCTION ONLY		10/10/00
RETROFIT UNITS IN PRODUCTION AND INVENTORY	MICHEL DOIDIC	12/12/82
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	100	
	1709	12/12/82

DUCT AFFECTED 08-8 CRIPTION OF CHANGE DRAWINGS AFFECTED

SCHEMATIC 1679 A, SHEET 2 OB-8 PROCESSOR BOARD

OLD:

NEW:

VOLP (SE (Kap 033) [50 80 VOLPOT low 2 37 288

VOLD (GS) 011 47#. R89 IK (ADDED) R88 1113905 (ADDED) PUP 478 (Appan) ADD PNP TRANSISTOR, 47K AND 1K RESISTORS

SON FOR CHANGE

TO REDUCE POWER-DOWN GLITCH AT OUTPUTS

ECTIVITY FUTURE PRODUCTION ONLY RETROFIT UNITS IN PRODUCTION AND INVENTORY RETROFIT UNITS IN FIELD DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED

RETROFIT AS NEEDED

WRITTEN BY Randy Evans

APPROVED BY

DATE 12-15-82

DATE

12-15-87

DRAWINGS AFFECTED PRODUCT AFFECTED NONE OB-8 DESCRIPTION OF CHANGE 100 pt OLD: 232 NEW 478D P32 ADD A 100pf CAPACITOR IN PARALLEL WITH R34

REASON FOR CHANGE
ON REVISION A PROCESSOR BOAKDS, WHEN A SEQUENCER IS CONNECTED,
DISTORTION BECOMES PRESENT IN THE NOISE GENERATOR.

EFFECTIVITY	WRITTEN BY
FUTURE PRODUCTION ONLY	7m-70
RETROFIT UNITS IN PRODUCTION AND INVENTORY	
RETROFIT UNITS IN FIELD	APPROVED BY
DRAWING CORRECTION ONLY: HARDWARE NOT AFFECTED	1 2

(E 12/22/82

12/24

DATE

ECO NO. 409

PRODUCT	AFFECTED
0	B-8

DRAWINGS AFFECTED 1682A

DESCRIPTION OF CHANGE

ADD A 33K RESISTOR ON EACH VOICE (& PLACES) TO RX27. THIS RESISTOR WAS 4.7K BUT WAS REMOVED BY ECO 405.

REASON FOR CHANGE

FEFECTIVITY

TO KEEP OSC 2 FROM GOING SHARP WHEN THE SAWTOOTH WAVE IS SELECTED.

Cir Correct.	
FUTURE PRODUCTION ONLY	RANDY EVANS
RETROFIT UNITS IN PRODUCTION AND INVENTORY	
RETROFIT UNITS IN FIELD	APPROVED BY
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	N 100
	090

DATE 12/22/82

DATE VED BY

WRITTEN BY

QQ 12/22/82

REVISED 1-5-83 *	ECTRONICS, INC.		ECO NO.
ENGINEERING CHANGE ORDER		410	
RODUCT AFFECTED	DRAWINGS AFF	FECTED	
OB-8	NONE	=	
DESCRIPTION OF CHANGE			
REMOVE EPROMS AS UZITHROUGH UZ4, AND SUFTWARE, EPROMS A	REPLACE L	1 SOCKE	W
- Eco's 405, 406	, 409 Muss	l pe in	aple mented.
REASON FOR CHANGE TO ADD THE OUTPUT 30S CALIBRATION PROCEDURE TO	(1503) 0555	ET	
REASON FOR CHANGE	(1503) 0555	SOFTWARE	
REASON FOR CHANGE TO ADD THE OUTPUT 309 CALIBRATION PROCEDURE TO EFFECTIVITY FUTURE PRODUCTION ONLY	O (USOS) OFFS	SOFTWARE	
REASON FOR CHANGE TO ADD THE OUTPUT 309 CALIBRATION PROCEDURE TO	O (USOS) OFFS	WRITTEN BY	_ DOIDIC 12
REASON FOR CHANGE TO ADD THE OUTPUT 309 CALIBRATION PROCEDURE TO EFFECTIVITY FUTURE PRODUCTION ONLY	TORY	SOFTWARE	_ DOIDIC 12

DATE 16/83 DATE

ENGINEERING CHANGE ORDER

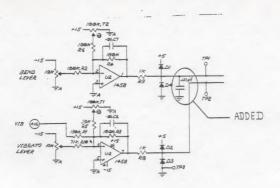
RODUCT AFFECTED

OB-8

DRAWINGS AFFECTED

OB-8 BEND BOX 1680A SHEET LOFT

ESCRIPTION OF CHANGE



EASON FOR CHANGE

- REMOVES NOISE MODULATION FROM BENDER LEVER

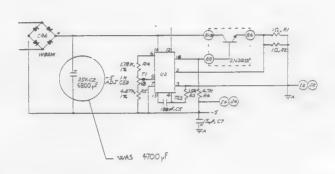
WRITTEN BY	DATI
MICHEL DOIDIC	1/6/8
APPROVED BY	DAT
DER	1/6/83
	MICHEL DOIDIC

DRAWINGS AFFECTED

PROCESSOR BOARD - POWER SUPPLY 1679A SHEET 4 of 4

DESCRIPTION OF CHANGE

08-8



(REFERENCE ECO \$401)

REASON FOR CHANGE

WHEN THE NEW POWER SUPPLY TRANSFORMER (REF. 561021) IS USED , THIS CHANGE DECREASES THE OUTPUT THUMP ON POWER OFF.

WRITTEN BY

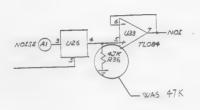
EFFECTIVITY	WRITTEN BY	DATE
FUTURE PRODUCTION ONLY	MICHEL DOUDIC	1/18/83
RETROFIT UNITS IN PRODUCTION AND INVENTORY		/
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	200	1/18/83

08-8

DRAWINGS AFFECTED

VOICE BOARD 1682A SHEET 2 OF 3

DESCRIPTION OF CHANGE



REASON FOR CHANGE

FFFECTIVITY

REMOVE LEAK OF NOISE GENERATOR WHEN & FOICE IS GATED

FUTURE PRODUCTION ONLY
RETROFIT UNITS IN PRODUCTION AND INVENTORY
RETROFIT UNITS IN FIELD
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED

WRITTEN BY MICHEL DOIDIC

1/.8/93

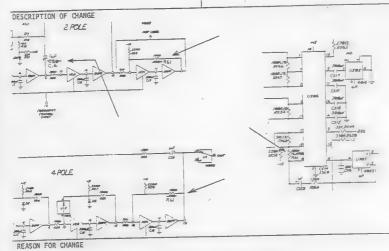
DATE

APPROVED BY

OB-8

DRAWINGS AFFECTED 1682A VOICE BOARD

2 POLE/4 POLE CONFIGURATION



RESISTOR AT UX 26 PINS 10 18 MARKED RX 68 SHOULD BE RX 61.

RESISTOR AT UXOG PINS 10,18 MARKED RXG8 SHOUL			
CAPACITOR IN 2 POLE/4 POLE CONFIGURATION DRAWING MA	RKED CZØ SHOULD 8	E C14.	
EFFECTIVITY	WRITTEN BY		DATE
FUTURE PRODUCTION ONLY	PAUL WHITE	1/20/83	
RETROFIT UNITS IN PRODUCTION AND INVENTORY			
RETROFIT UNITS IN FIELD	APPROVED BY	1 1	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	as A.	1/20/83	

OBERHEIM ELECTRONICS, INC.

ECO NO.

DATE 1-26-83

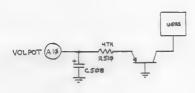
ENGINEERING CHANGE ORDER

RODUCT AFFECTED

OB-8

DRAWINGS AFFECTED
SCHEMATIC
1682 B OB-8 VOICE BOARD (UPPER)

ESCRIPTION OF CHANGE



Change C508 from O.Inf Mylar To 2.2 Electrolytic (Upper Voice only)

EASON FOR CHANGE

To eliminate noise at output at low master volume levels

FFECTIVITY	WRITTEN BY
FUTURE PRODUCTION ONLY	Randy Evans
RETROFIT UNITS IN PRODUCTION AND INVENTORY	harayans
RETROFIT UNITS IN FIELD	APPROVED 8Y
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	1 46

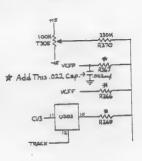
DUCT AFFECTED

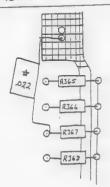
DRAWINGS AFFECTED

OB-8

1632B OB-8 Voice Board 1689 R

CRIPTION OF CHANGE





Add a .021 Mylor Capacitor To both The Top and bottom Voice Boards

SON FOR CHANGE

To Filter-out digital noise picked-up along The Filter Pedal line (VCFP) when a Sequencer (OSX) is connected

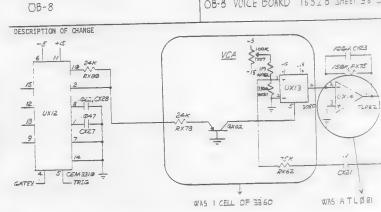
FUTURE PRODUCTION ONLY
RETROFIT UNITS IN PRODUCTION AND INVENTORY
RETROFIT UNITS IN FIELD
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED
As Required in Test

WRITTEN BY	 DATE
Randy Evans	2-3-33

DATE APPROVED BY

DRAWINGS AFFECTED

OB-8 VOICE BOARD 1682 B SHEET 3.53



- ALSD: UXOR IS DELETED AND REPLACED BY THE OTHER CELL OF THE TLOGE UXIA

REASON FOR CHANGE

RATIONALIZE THE CIRCUITERY

EFFECTIVITY	WRITTEN BY	DATE
FUTURE PRODUCTION ONLY, START WITH VOICE BOARD PC 6588	MICHEL DO DIC	2/ ./83
RETROFIT UNITS IN PRODUCTION AND INVENTORY		
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	140	1 5 83

ECO NO.

PRODUCT AFFECTED

DRAWINGS AFFECTED

OB-8

OB-8 VOICE BOARD 1682B SHEET SOF3

DESCRIPTION OF CHANGE

RX'O ON VCO1 AND RX23 ON VCO2 BECOME 44.2 K 1%

REASON FOR CHANGE

EFFECTIVITY

- BRING THE TRACKING TRIMMER IN THE MIDDLE

FUTURE PRODUCTION ONLY, START WITH VOICE BOARD PC 65	BB MICHEL DOIDIC
RETROFIT UNITS IN PRODUCTION AND INVENTORY	
RETROFIT UNITS IN FIELD	APPROVED BY
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	Aro

WRITTEN BY

8 2/15/83

2/1/2

DATE

ECO NO. 420

PRODUCT AFFECTED

DRAWINGS AFFECTED

OB-8

3

VOICE BOARD 1682B SHEET 1, 2, 3

DESCRIPTION OF CHANGE

THE VOICE BOARD PRINTED CIRCUIT 1658A IS REPLACED BY PRINTED CIRCUIT 1658B

ECOS 413 417 418 419 ARE IMPLEMENTED

REASON FOR CHANGE

- REHOVES CUTS AND JUMPERS

EFFECTIVITY	WRITTEN BY
FUTURE PRODUCTION ONLY	MICHEL DOIDIC . 2/1
RETROFIT UNITS IN PRODUCTION AND INVENTORY	1112 00 00 1012 1 20/1
RETROFIT JNITS IN FIELD	APPROVED BY
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	

45 2/15 83

DATE 1/83

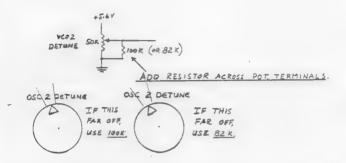
-OUCT AFFECTED

DRAWINGS AFFECTED

03-8

POT BOARD 1681 B

ESCRIPTION OF CHANGE



LASON FOR CHANGE

FECTIVITY

TO CENTER OSC 2 DETUNE CONTROL WHEN LED GOES OFF WITH KNOR SIGNIFICANTLY COUNTER CLOCKWISE OF CENTER.

_ FUTURE PRODUCTION ONLY	BILL CANTHORNE
RETROFIT UNITS IN PRODUCTION AND INVENTORY	
RETROFIT JNITS IN FIELD	APPROVED BY
I DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	1 400
AS REQUIRED	100-2

DATE 2-24-83

DATE

2-22-83

WRITTEN BY

CANSELLED BY ECO \$ 433

OBERHEIM ELECTRONICS, INC.

ENGINEERING CHANGE ORDER

ECO NO.

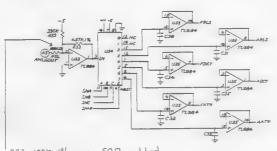
RODUCT AFFECTED

DRAWINGS AFFECTED

OB-8 VOICE BOARD 1682B SHEET 2

WRITTEN BY

DESCRIPTION OF CHANGE



R32 100K 1% are 5052 makked between Lower and upper tray.

R32 on the Lower and upper tray are monted after the two boards are screwed together.

REASON FOR CHANGE

EFFECTIVITY

-- IMPROVES MATCHING OF TIMING BETWEEN ENVELOPES OF UPPER.
AND LOWER TRAY.

FUTURE PRODUCTION ONLY	HICHEL DOIDIC	3/.0/83
RETROFIT UNITS IN PRODUCTION AND INVENTORY		
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	199	3/10/83

CANCELLAD BY ECO # 429

OBERHEIM ELECTRONICS, INC.

ENGINEERING CHANGE ORDER

423

PRODUCT AFFECTED DRAWINGS AFFECTED 1479 B - SHEET 1 08-8 1679 6 - SHEET 4 DESCRIPTION OF CHANGE WA5 8Ë SHOULD

PERSON FOR CHANGE

EMPROVE MARGIN OF "PUP" CHROWT TO INPEVERTENT

TURN-OFF, ESPECIALLY AT 50 HE.

ETROFIT UNITS IN FIELD

EFFECTIVITY

TORNWING CORRECTION ONLY: HARDMARE NOT AFFECTED

APPROVED BY DATE

AGO 3-20-93

ECO NO. 424

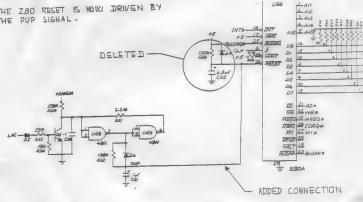
RODUCT AFFECTED OB-8

DRAWINGS AFFECTED

PROCESSOR BOARD 16798 SHEET 10F4

DESCRIPTION OF CHANGE

THE ZBO RESET IS NOW DRIVEN BY THE PUP SIGNAL -



REASON FOR CHANGE

TO AVOID POSSIBLE MEMORY DROP CAUSED BY SHORT POWER DROP

EFFECTIVITY	WRITTEN BY	DATE
FUTURE PRODUCTION ONLY	MICHEL DOLDIC	4/11/33
RETROFIT UNITS IN PRODUCTION AND INVENTORY	11101100	/ /
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	1200	4/11/33
Undaying Contest on One, Indiana	1200	4/11/3

ECO NO.

'RODUCT AFFECTED

DRAWINGS AFFECTED

NONE

DESCRIPTION OF CHANGE

REHOVE EPROMS AS-Ø, AS-1, AS-2, AS-3 FROM SOCKET U21 THROUGH U24, AND REPLACE WITH NEW SOFTWARE EPROMS A6-Ø, A6-1, A6-2, A6-3

REASON FOR CHANGE

The version A6 adds two new features to the version A5:

values of this very machine are stored at the end of the patch transver.

When this cassette is played back the envelope offer, alues may be retrived from the cassette. To do so, you must hold down simultaneous it has all of following switches and then push FLAY.

OSCI ON , OSCI HALF , OSCI FULL , NOISE , 4 FOLE , FRACE

This feature lets you save the envelope of set data become in a manual the battery or a memory chip and in a more general way and the ... tend to service an OB-8. It also gives to the user the possibility to them the possibility of report of the envelope offset value after an unfortunate memory drop.

8) The program data may be reinitialized like at the first power on. To do so, the memory protect switch must be off and you must hald down smalltaneously the program 1 to 8 switches and then both STAIT you plantation...).

This procedure is useful if you cannot reth a the enverible asset data from a cassette after another unfortunate memory drop. The intrialization will set the offsets to their mid value and the envelope will be placed as the procedure of they are not well matched.

EFFECTIVITY	WRITTEN BY	DATE
FUTURE PRODUCTION ONLY	MICHEL DO . DIC	4/11/2
RETROFIT UNITS IN PRODUCTION AND INVENTORY	11121223312	/ / 0.
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	2 P A.	4/11/83
	0	[]03

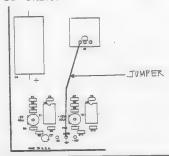
ECO NO.

PRODUCT AFFECTED

DRAWINGS AFFECTED POWER SUPPLY

DESCRIPTION OF CHANGE

ADD A JUMPER BETWEEN PIN I OF THE -IS REGILATOR 7915 (GND) AND THE GROUND REFERENCE TEST PHAT. THE JUMPER MUST BE HADE OF A 19 AW/G WIRE (.04 mm) MINIMUM AND MUST BE SHORT.



REASON FOR CHANGE

TO REMOVE AC HUM ON AUDIO DUTPUT.

EFFECTIVITY	MKTITEN BA	DATE
FUTURE PRODUCTION ONLY	HICHEL DOIDIC	7/11/3
RETROFIT UNITS IN PRODUCTION AND INVENTORY		, ,
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED		

ODCIGIETA CEE	31110112 00	
ENGINEERING	CHANGE	ORDER

RODUCT	AFFECTE	

DRAWINGS AFFECTED

03-8

06.8 SERVICE MANUAL

DESCRIPTION OF CHANGE

- SERVILE SOFFWARE ONLY -

SOFTWARE REVISION AT: USE EPROMS AT-0. AT-1. AT-2. AT-3

CHANGE PROCE DURE OF OFFSET CALIBRATION AS FOLLOWS

THE FIRST IS PARAMETERS (FILTER RIS, VCA RIS, FILTER DCT,
VCA DLY, FILTER ATTACK, AND VCA ATTACK) ARE TO BE CALIBRATED
FOR THEIR MAXIMUM VALUE (-.2560 V.) INSTEAD OF THEIR MINIMUM
(0.0V).

2. ALTIVATE CONTINUOUS RAM TEST BI PRESSING "LINEX" SWITCH.

LOOK AT THE LEOS ON THE PROBLAM SECTION. NO LIGHTS

MEANS ALL ARE FINE. PAILLIPE IN RAMÓ (UZO : 15 I.V.) ATED

BY "A" BEING LIT, RAMÍ (UIO) = 5 ON AND IF "C" IS ON, THERE:

15 A. PAILLIRE IN RAMÍ (UIO) : 10 ENTIRE CYCLE TAKES LESS THAN IS.

THIS TEOT RUNS CONTINUOUSLY UNTIL A NEW TEST IS SELECTE.

AND ONLE AN ILL PAILS THE LEO STAYS ON UNTIL THE TEST IS

RESCLECTED OF LOURSE, MEMORY PROTECT MUST BE OFF!

3 DURING LED TEST MODE, THE VOLUME IS TURNED ON, AND THE
POTS MAY BE EASILY CHECKED FOR DEAD ZONES. THE PREGUENCY UP
THE OSC. IS DETERMINED BY POS. TIAN OF THE LAST ED TED '73'
CONTROL JUMPS TO POT THAT IS BEING MOTED AND STAYS THERE UNTIL A

NEW POT IS MOVED, BEND BOX RATE POTS ARE INCLUDED.

REASON FOR CHANGE

IMPLEMENT TWO NEW TESTS, AND IMPROJE OFFSET CAL.

EFFECTIVITY	WRITTEN BY	Di
FUTURE PRODUCTION ONLY AND AS NESDED.	ANNE GRAHAM 5/9/83	
RETROFIT UNITS IN PRODUCTION AND INVENTORY		
RETROFIT UNITS IN FIELD	APPROVED BY	Đ.
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	- CO 5/3.3.	<i>></i>

OBERHEIM ELECTRONICS, INC.

ECO NO.

5-23-93

PRODUCT AFFECTED

15.5

DRAWINGS AFFECTED

VOICE SCHEMATIC 16328

DESCRIPTION OF CHANGE

COMPONENT NOIS CX25 AND CX27

ON THE OB-8 YOICE BOARDS, ENVELOPE SELTION. 16 PIECES TER OCTS:

WAS: PART NO. 153 OCE . C47 UF \$20% CARACITOR.

13 NOW: PART NO. 153021 .047MF = 5% CAPACITOR.

REASON FOR CHANGE

TIGHTEN TOLERENCE ON ENVELOPE SPEED CAPACITOR.

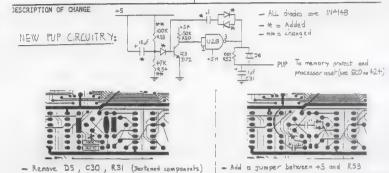
EFFECTIVITY	WRITTEN BY	DATE
FUTURE PRODUCTION ONLY	ANNE GRAHAM	5-23-33
RETROFIT UNITS IN PRODUCTION AND INVENTORY		
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY: HARDWARE NOT AFFECTED	\ C-	

06-8

DRAWINGS AFFECTED

OB-8 PROCESSOR BOARD 1679B sheer lof +

- Add From under the board : 2 cops and 3 diades



- Cut between Q3 base and R53
- Remove aiode added by ECO 423 (under the board)
- Replace R53 with a 100K and R54 with a 47K
- Replace CI (4700 pf cap on 5 v power supply) with a .0,000 pf 16 v

REASON FOR CHANGE

- Avoid memory drop.

EFFECTIVITY	WRITTEN BY	DATE
TUTURE PRODUCTION ONLY	HICHEL DOIDIC	6/21/83
RETROFIT UNITS IN PRODUCTION AND INVENTORY	THE HEAD IN THE	2/ 2./ 23
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	100	6/21/83
	1	0/-1/12

OB-8 voice upper/lower

DRAWINGS AFFECTED

1682B 20F

ESCRIPTION OF CHANGE

 $U16,2 \rightarrow R401$ Should be $U16,2 \rightarrow R201$ U16, 6 $\rightarrow R401$ also.

U15,6 -> U16,5 should be U15,6 -> U16,1 U15,2 -> U16,1 Should be U15,2 -> U16,5

EASON FOR CHANGE

to correct OB-8 voice Board Schmatics

T FUTURE PRODUCTION ONLY

RETROFIT UNITS IN PRODUCTION AND INVENTORY

RETROFIT UNITS IN FIELD

DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED

WRITTEN BY

0ATE 4-2-83

DATE

APPROVED BY

4-7-83

100

RODUCT AFFECTED OB - 8

DRAWINGS AFFECTED ECO n: 419

ESCRIPTION OF CHANGE

change value of -1 divider on each voice board

EASON FOR CHANGE

FEECTIVITY

- ALLOWS USE OF SIGNETICS 4016 & IDENTIFIES COMPONENTS

FUTURE PRODUCTION ONLY

RETROFIT UNITS IN PRODUCTION AND INVENTORY

RETROFIT UNITS IN FIELD

DRAWING CORRECTION ONLY: HARDWARE NOT AFFECTED

HICHEL DOIDIC . APPROVED BY

WRITTEN BY

DATE

DATE

6/27/83

DATE

PRODUCT AFFECTED OB -8

OB-8 PROCESSOR BOARD 16798 sheet 2 of 4-

WRITTEN BY

DESCRIPTION OF CHANGE ADDED

REASON FOR CHANGE

FFECTIVITY

- AVOID HISSING PULSE ON ARPEGIATOR EXTERNAL CLOCK

FUTURE PRODUCTION ONLY	MCHEL DOIDIC	6/27/83
RETROFIT UNITS IN PRODUCTION AND INVENTORY		. / / .
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	1 4 4 2	(-27-35

ECO NO.

PRODUCT AFFECTED	DRAWINGS AFFECTED
. OB-8	OB-8 VOICE BOARD 16828 sheet 2
, t	

ESCRIPTION OF CHANGE

ECO NO. 422 IS CANCELLED. R32 ON LOWER AND UPPER VOICE BOARD ARE NOT HATCHED ANYMORE.

REASON FOR CHANGE

- THE NEW ENVELOPE CALIBRATION SOFTWARE STARTING WITH AT (SEE ECO 427) DOES NOT REQUIRE THOSE RESISTORS TO BE MATCHED

EFFECTIVITY	WRITTEN BY	DATE
FUTURE PRODUCTION ONLY	WICHEL DOLDI C	7/5/83
RETROFIT UNITS IN PRODUCTION AND INVENTORY		. ,
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	1 0-	

A 400 7/5/83

0B-8

DRAWINGS AFFECTED

NONE

DESCRIPTION OF CHANGE

- REPLACE EPROMS IN SOCKET V21 THROUGH U24 WITH NEW SOFTWARE EPROMS A8-0, A8-1, A8-2, A8-3

The software version A8 contains the following new features:

- 1) -- LEGATO FORTAMENTO
- 2) -- EQUAL TIME LINEAR PORTAMENTO
- 3) -- EXPONENTIAL PORTAMENTO
- 4) -- INVERT LFO FREQUENCY MODULATION ON VCO 1
- 5) -- INVERT LFO PULSE WIDTH MODULATION ON VCO 1
- 6) -- VCF TRACKING OF THE BEND LEVER
- 71-- REVERSABLE BEND LEVER 8) -- REVERSABLE MODULATION LEVER
- IF THE PREVIOUS SOFTWARE WAS AS OR PREVIOUS; ECO: 405, 405, 405 HULT BE IMPLEMENTED AND THE OFSET CALIBRATIONS HULT BE DONE AS DESCRIBED BY ECO +27
- IF THE PREVIOUS SOFTWARE WAS AT THE OFFSET CALBRATION MUST BE DONE AS DESCRIBED BY ECO 427

WRITTEN BY

REASON FOR CHANGE

FEFECTIVITY

- ADD NEW FEATURES.

FUTURE PRODUCTION ONLY	HICHEL DOIDIC	7/12/83
RETROFIT UNITS IN PRODUCTION AND INVENTORY	11101100 301310	,,,,
RETROFIT UNITS IN FIELD	APPROVED BY	DATE
DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED	200	7/12/83

PRODUCT AFFECTED: OB-8	DRAWINGS AFFECTED: OB-8 VOICE, BOARD SCHEMATIC (No.16828) AND PARTS LAYOUT (No.16898) 435
EFFECTIVITY:	REASON FOR CHANGE:
□ AS REQUIRED IN TEST № FUTURE PRODUCTION □ RETROFIT PRODUCTION & INVENTORY □ RETROFIT IN FIELD □ AS NEEDED □ DRAWING CORRECTION ONLY	REMOVE NOISE ON "VCFP" (VCF PEDAL) LINE.
WRITTEN BY: DATE:	, APPROVED BY: DATE:

10-17-83

P. MUNSON
DESCRIPTION OF CHANGE:

ECO 416 ("AS NEEDED") IS MADE A PERMANENT CHANGE.

(ADD .022 MF CAP BETWEEN "VCFP" LINE AND GROUND).

- 10. Turn the Interface board chip-side down with the ribbon cables stick out to the left. The 16-pin ribbon will be above the 40-pin ribbon. Pin of both ribbon cables is located at the tops of the sockets. Insert the pin ribbon header into socket 26 on the processor board, being careful to line up one-1 of cable with notch on socket.
- 11. Insert the 16-pin ribbon header into socket 41 on the processor board When the header is properly installed, the cable will stick straight out from the right side of socket 41.
- 12. Position the four spacers over the four empty screw holes in the processor board. Turn the Interface board over and position the four hole in the corners over the spacers. Insert the long screws through the corner holes in the Interface board through the spacers and into the holes in the processor board.

13. The middle cable on the endbell assembly is "MIDI OUT". Connect this cable to the molex connector on the Interface board labled "MIDI OUT". The

rear cable on the endbell assembly is labled "MIDI IN" and should be connected to the molex labled "MIDI IN" on the interface board. "MIDI THRU should be connected to "MIDI THRU".

14. To insure proper operation after changing the EPROMS, the RAM chips should be cleared. To do this cerefully remove each RAM from it's socket a

then carefully put it back in. Do this with all three RAM chips. They are

- 1.C.'s 18,19, and 20.
 14. Close the front cover and replace the front cover screws.
- 15. Re-connect the AC power cord.

08-8 owners manual (included).

- 16. With the memory protect switch OFF (rear panel), turn the power on. Load the saved data from ceasette, including the offsets. See page 43 of t
- 17. Press AUTOTUNE.
- $18.\ \ \text{Apply sticker}$ to the rear of the 08-8 above Computer Interface connector.

PRODUCT AFFECTED:	DRAWINGS AFFECTED: 1679 A Sheet 4 of 4	ECO NO. 437
EFFECTIVITY: AS REQUIRED IN TEST FUTURE PRODUCTION RETROFIT PRODUCTION & INVE DRAWING CORRECTION ONLY	NTORY ON PUR SOUN	of affsets in memor . (like DSX)
WRITTEN BY: Aunson	DATE: APPROVED BY:	DATE: 16/15/84
DESCRIPTION OF CHANGE:		-C V C
add. Mov 15	or Varisters to	primary of X-for

PRODUCT AFFECTED

OB-8 ASSY*730114

DRAWINGS AFFECTED

DB-8 MOD CAN SCHEMATIC

SHEET 1 OF 1.

ECO No 44 ¢

AFFECTIVITY.

AS REQUIRED IN TEST

SEFUTURE PRODUCTION

TRETROFIT PRODUCTION & INVENTORY

RETROFIT IN FIELD AS NEEDED

DRAWING CORRECTION ONLY

REASON FOR CHANGE

REMOVE NOISE MODULATION FROM VIBRATO LEVER, AND CORRECT SCHEMATIC.

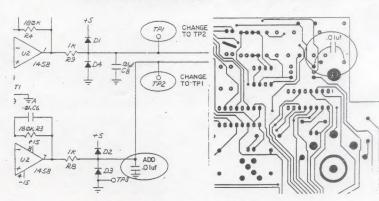
WRITTEN BY:

DATE: 9-7-84 APPROVED BY:

9-7-84

DESCRIPTION OF CHANGE:

- 1. CHANGE SCHEMATIC AS SHOWN.
- 2. ADD .01uf CAP (08.153004) FROM GROUND TO TEST POINT (T.P. 2) OF MOD CAN PCB ON 1666 SIDE OF BOARD.





OBERHEIM ELECTRONICS .INC

2250 South Barrington Avenue.Los Angeles, California 90064. (213)473-6574

PRODUCT AFFECTED

OB-8 ASSY. *720073

DRAWINGS AFFECTED VOICE BOARD | ECO No SCHEMATIC 16828 SHEET 3 OF 3 | 44 |

AFFECTIVITY:

☐ AS REQUIRED IN TEST

SEFUTURE PRODUCTION
☐ RETROFIT PRODUCTION & INVENTORY
☐ RETROFIT IN FIELD ☐ AS NEEDED

DRAWING CORRECTION ONLY

REASON FOR CHANGE

LOWER INITIAL FREQUENCY OF 3340 TO ACCOMMODATE A WIDER RANGE OF CHARACTERISTIC VARIATIONS ON THE 3340.

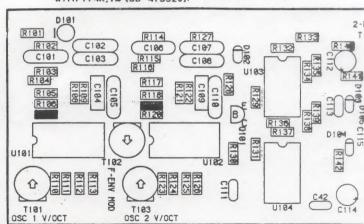
WRITTEN BY:

DATE: 10-4-84 APPROVED BY:

DATE: 10-4-84

DESCRIPTION OF CHANGE:

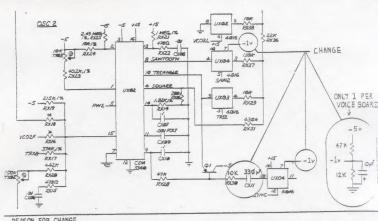
REPLACE RESISTOR RX07 AND RX19 (215K,1%) WITH 174K,1% (08*475520).



DRAWINGS AFFECTED

08-8

DESCRIPTION OF CHANGE



REASON FOR CHANGE

FFFECTIVITY

- IMPROVES SYNCHRO SOUND

RETROFIT UNITS IN PRODUCTION AND INVENTORY RETROFIT UNITS IN FIELD DRAWING CORRECTION ONLY; HARDWARE NOT AFFECTED

WRITTEN BY FUTURE PRODUCTION ONLY, START WITH VOICE BOARD PC 1658 B

MICHEL DOIDIC

2/11/83

DATE

ECO NO.

419

VOICE BOARD 1682 A SHEET 3 OF 3

2 15 83.

OB-8 SOFTWARE UPDATE KIT - REVISION AS July 1983

Part Number: 770041

The latest revision of software for the OB-8 contains several changes, designed to improve the OB-8's existing features as well as adding the following new features:

1) Legato Portamento do so 2) Equal Time Linear Portamento

3) Exponential Portamento

4) Inverted LFO Frequency Modulation on VCO1

5) Inverted LFO Pulse Width Modulation on VCO1 6) VCF Tracking of the Bend Lever

7) Reversable Bend Lever 8) Reversable Modulation Lever

NOTE: If the software to be replaced is "A3" or "A4", offset calibrations must be performed as described in ECO 427.

If the software to be replaced is "A1" or "A2". ECOs 405, 406, and 409 must be implemented and the offset calibrations must be performed as described in ECO 427.

INSTALLATION:

- 1) If the installation is done properly, the contents of the memory (RAM) will remain intact. However, storing the data on cassette will provide a backup IF battery power to the Random Access Memory is accidentally interrupted.
- Turn off power and disconnect the power cord from the OB-8. 2)

70 . Cm.

- 3) Remove the two screws at the top of each endbell and lift up the front विक्टि विकास panel.
- 4) Remove the four EPROM memory chips (U21 through U24) labeled "A7-0", "A7-1", "A7-2", "A7-3". Earlier software revisions are labelled A6 or A5.
- Install the four new EPROM memory chips. The chip labeled "A8-0" goes 5) in location U24, "A8-1" goes in location U23, "A8-2" goes in location U22, and "A8-3" goes in location U21.

Make sure all of the chips have been installed correctly and that all of the pins have seated correctly in the sockets.

Close the unit and apply power. The OB-8 should return to the last 6) selected program or to the cassette mode if the unit was last in cassette mode.